

Mariana da Tari

March 2, 1994

Mr. Duane Snyder District Engineer Ohio EPA, Central District Office 2305 Westbrooke Drive, Building C Columbus, Ohio 43266

RE: GAS MONITORING REPORT FOR MARBLE CLIFFS QUARRY LANDFILL, MONTHLY MONITORING OF GSW-1

Dear Mr. Snyder:

This letter documents the explosive gas monitoring conducted at the Marble Cliffs Quarry in accordance with the revised "Explosive Gas Monitoring, Sampling and Reporting, Marble Cliff Quarry Landfill" dated April 12, 1993 ("Monitoring Plan"). Gas monitoring well GSW-1 has been monitored monthly since its threshold limit of 0.1 percent gas by volume has been exceeded. The previous monthly monitoring (February 7, 1994) indicated that explosive gasses were detected at 2% LEL, equivalent to the threshold limit of 0.1 assigned to GSW-1. GSW-1 will be monitored monthly until the threshold value shall falls below the threshold limit value. GSW-1 and two punch bar stations (GSW-1A and GSW-1B) located in the immediate vicinity of GSW-1 were monitored for explosive gasses on March 1, 1994 by Mr. Raymond Kennedy of WW Engineering & Science. The weather for the sampling was cloudy and temperatures were in the low 30's.

The permanent gas monitor well GSW-1 was monitored for the presence of combustible gas and gas pressure. In addition, the static water level of the well was measured. A pressure reading of 0.34 inches of water was detected at GSW-1. A DigiFlam Model 2000 combustible gas indicator (CGI) was calibrated at the wellhead and then connected to GSW-1 for 3 minutes and the initial and sustained readings recorded. The combustible gas indicator read a sustained gas concentration of 0.7 percent gas by volume. The CGI unit shut down after 3 minutes due to a flow defect. The DigiFlam unit was then recalibrated and GSW-1 re-tested. The explosive gas level rose slowly to 8% LEL (0.4 percent gas by volume). After 115 seconds the CGI again shut down due to a flow defect. See attached Explosive Gas Monitor Well Report table for Specific data.

Punch bar stations GSW-1A and GSW-1B were also monitored in the vicinity of GSW-1 adjacent to the quarry maintenance building foundation. Punch bar stations, GSW-1A and



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GSW-1B, were driven to depths of 2.0 feet and 2.1 feet, respectively. No combustible gasses were detected at these two stations.

In accordance to procedures set forth in the April 12, 1993 Monitoring Plan, the following agencies were notified: Columbus Fire department, Franklin County Sheriff, Ohio EPA DERR, Franklin County Board of Health, and the Columbus Health Department. The manager of the Marble Cliffs Quarry was informed of the high gas levels detected in GSW-1. As stated last month, the quarry will keep the maintenance building ventilated with exhaust fans and open the building to allow additional venting before personnel enter the building until the gas levels in GSW-1 fall below acceptable limits.

In conclusion, the explosive gas level in GSW-1 has not dropped below the threshold value. Therefore, monthly monitoring of GSW-1 will be continued. Next month is the quarterly monitoring for this site, which is scheduled to be performed the week of April 4, 1994.

If you have any questions concerning this report, do not hesitate to call me at (614)847-6008.

Sincerely,

WW ENGINEERING & SCIENCE

Fregues House G

Raymond L. Kennedy

Geologist

enclosures

cc: Ben Pfefferle, Thompson, Hine and Flory

Scott Doran, Esq., Vorys, Sater, Seymour & Pease

Mark Davies, American Aggregates Company

John Tallichet, Specialty Restaurants Corporation

EXPLOSIVE GAS MONITOR WELL REPORT

Marble Cliff Quarry Landfill Franklin County, Ohio

Testing Done By: Ray Kennedy

Gas Instrument Type: DigiFlam Model 2000

Date Calibrated: 3/1/94 Sampling Method: Purge Weather Conditions: cloudy Outside Air Temp: low 30's F Barometric Pressure: 30.22

Well Designation	Sample Time	Percent LEL		ent Gas /olume Substained	Threshold Limit	Pressure " of H2O	Static W.L.	Total Depth	Amt of Screen
GSW-1 Retest	1456	14%	0.0	0.7	0.10	0.34	N/A	37 ft	30 ft
GSW-1	1505	8%	0.0	0.4	0.10	0.34	8.4	37 ft	30 ft

Note: Flow defect in DigiFlam after 3 min. @ GSW-1. Recalibrated DigiFlam (re-zeroed) and re-tested GSW-1, went to 5% LEL in 20 seconds, 6% LEL in 65 seconds, 7% LEL in 90 seconds, and 8% LEL in 95 seconds. Flow defect in DigiFlam retest after 115 seconds.

* Checked water in GSW-1, water level was initially at 8.2 ft and slowly dropped to 8.4 ft after 8 minutes. Water level still dropping very slowly after 8 minutes.